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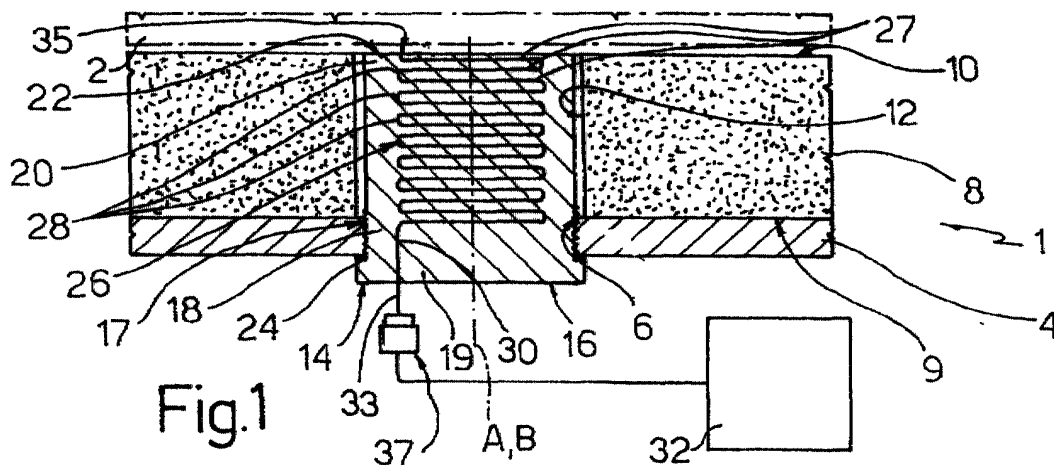
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(54) **Wear detector for a vehicle braking member**

(57) A vehicle braking member (1) has a block (8) of friction material cooperating in sliding manner with a respective member (2) for braking, and supports a wear detector (14) wherein a resistive element (26), consumed simultaneously with the block (8) of friction ma-

terial, has a first electric terminal (28) set, in use, to a reference potential, and a single second electric terminal (27) cooperating in sliding manner with the member for braking (2) so as to be set to the same potential as the member for braking.



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## EUROPEAN SEARCH REPORT

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EP 00 11 0079

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	DE 87 10 053 U (PREH) 17 September 1987 (1987-09-17) * page 7, line 14 - page 8, line 5; figure 1 *	1-9,11, 19-22,24	F16D66/02 G01B7/06
X	US 3 958 445 A (HOWARD ET AL.) 25 May 1976 (1976-05-25)  * column 2, line 34 - line 68; figure 1 *	1-4,8, 10,11, 18,19, 23,24	
X	US 4 641 519 A (KLEIN ET AL.) 10 February 1987 (1987-02-10)  * column 3, line 21 - line 35; claims 14,15; figure 1 *	1-4,8, 10,11, 19,20, 23,24	
X	DE 24 50 761 A (SANDER) 29 April 1976 (1976-04-29) * page 3, line 7 - line 22; figure 1 *	1,19,24	
A	EP 0 465 954 A (MANNESMANN KIENZLE) 15 January 1992 (1992-01-15)		
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>11 July 2001</b>	Examiner <b>Becker, R</b>
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
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11-07-2001

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
DE 8710053	U	17-09-1987	NONE		
US 3958445	A	25-05-1976	AU 476306	B	16-09-1976
			AU 7257774	A	26-02-1976
			CA 1060560	A	14-08-1979
			DE 2440601	A	13-03-1975
			FR 2242603	A	28-03-1975
			GB 1433315	A	28-04-1976
			IT 1020213	B	20-12-1977
			JP 50050562	A	07-05-1975
US 4641519	A	10-02-1987	DE 3425825	A	23-01-1986
			JP 61051572	A	14-03-1986
DE 2450761	A	29-04-1976	NONE		
EP 465954	A	15-01-1992	DE 9010354	U	13-09-1990
			DE 59106120	D	07-09-1995